

We claim:

1. A lubricant composition exhibiting enhanced load-carrying capacity and oxidative/corrosion stability said lubricant composition comprising a major portion of a synthetic ester based base stock and a minor portion of:

5 a) 3-(di-isobutoxy-thiophosphonylsulfanyl)-2-methyl-propionic acid (DITMPA);
and

b) a yellow metal passivator.

2. The composition of claim 1 wherein the synthetic ester based stock is the esterification product of an aliphatic polyol containing 4 to 15 carbon atoms and
10 from 2 to 8 esterifiable hydroxyl groups reacted with a carboxylic acid containing from 4 to 12 carbon atoms.

3. The composition of claim 1 wherein the synthetic ester stock is the esterification product of technical pentaerythritol and a mixture of C₄ to C₁₂ carboxylic acids.

15 4. The composition of claim 1 wherein the total weight of the DITMPA additive comprises from about 0.01 to about 0.40 weight percent of the fully formulated lubricating oil composition, and the total weight of the yellow metal passivator comprises from about 0.01 to about 0.40 weight percent of the fully formulated lubricating oil composition.

20 5. The composition of claim 1 wherein the total weight of DITMPA additive comprises from about 0.02 to about 0.20 weight percent and the yellow metal passivator comprises from about 0.05 to about 0.10 weight percent of the fully formulated lubricating oil composition.

25 6. The composition of claim 5 wherein the total weight of DITMPA additive comprises from about 0.03 to about 0.10 weight percent of the fully formulated lubricating oil composition.

7. The composition of claim 1 wherein the yellow metal passivator is tolutriazole, benzotriazole or a combination thereof.

30 8. A method for enhancing the load-carrying capacity and the oxidative/corrosion stability of a synthetic ester base stock lubricant composition oil

by adding to said lubricant an additive comprising DITMPA and a yellow metal passivator.

9. The method of claim 8 wherein the total weight of DITMPA additive comprises from about 0.01 to about 0.40 weight percent of the fully formulated lubricating oil composition and the total weight of the yellow metal passivator comprises from about 0.01 to about 0.40 weight percent of the fully formulated lubricating oil composition..

10. The method of claim 8 wherein the total weight of DITMPA additive comprises from about 0.02 to about 0.20 weight percent and the total weight of the yellow metal passivator comprises from about 0.05 to about 0.10 weight percent of the fully formulated lubricating oil composition.

11. The method of claim 10 wherein the total weight of DITMPA additive comprises from about 0.03 to about 0.10 weight percent of the fully formulated lubricating oil composition.

12. The method of claim 8 wherein the yellow metal passivator is tolutriazole, benzotriazole or a combination thereof.

13. The method of claim 8 wherein the synthetic ester based turbine oil stock is the esterification product of an aliphatic polyol containing 4 to 15 carbon atoms and from 2 to 8 esterifiable hydroxyl groups reacted with a carboxylic acid containing from 4 to 12 carbon atoms.

14. The method of claim 8 wherein the synthetic ester based turbine oil stock is the esterification product of technical pentaerythritol and a mixture of C₄ to C₁₂ carboxylic acids.